

Walkability: A Healthy Opportunity

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The Health Opportunity Index

Air Quality Index (EPA)

Population Churning Index

Population-Weighted Density
Index

Walkability Index

Affordability Index

Education Index

Townsend Deprivation Index

Food Accessibility Index

Employment Access Index

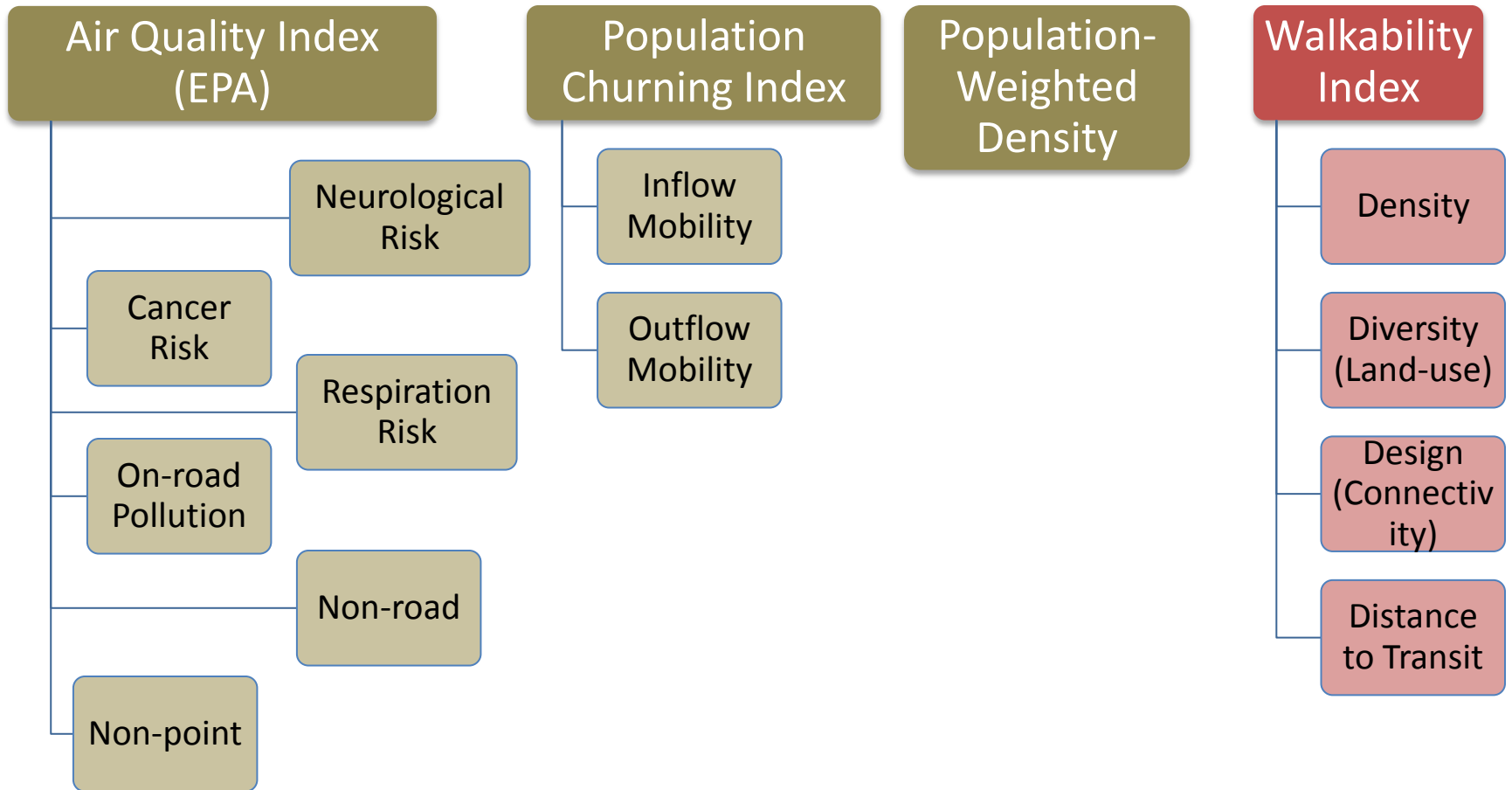
Income Inequality Index

Job Participation Index

Access to Care

Segregation Index

Community Environmental Profile



Walkability



The Evidence

- Walkable Designs linked to:
 - Increased walking for transportation & recreation
 - Increase in physical activity
 - Decrease in BMI/Obesity
 - Decreased air pollution
- Suburban Sprawl
 - Linked to Chronic Disease

See Frank, et al., “Many Pathways from Land Use to Health,” *Journal of the American Planning Association*. Winter 2006.

Walkability Variables

- The 4Ds include concepts such as:
- ***Density – Residential and employment***
 - Indicator: Total activity units per acre of land
 - Measures the concentration of activity types within a walkable area
- ***Diversity – Land use and destinations***
 - Indicator: Range of land uses by census tract
 - Measures the mix of activities available within a walkable area
- ***Design – Built environment and safety features***
 - Indicator: Number of street crossings by census tract
 - Measures the degree of connectivity to support safe pedestrian travel
- ***Distance – Transit accessibility***
 - Indicator: Aggregate frequency of transit service per square mile
 - Measures level of accessibility for pedestrians to reach a transit stop

Walkability Index

- Methodology was adopted from International Physical Activity and the Environment Network (IPEN)

$$WAI = (2 * con) + ent + far + hdens$$



** Design of
the built
environment*



*Land use
diversity*



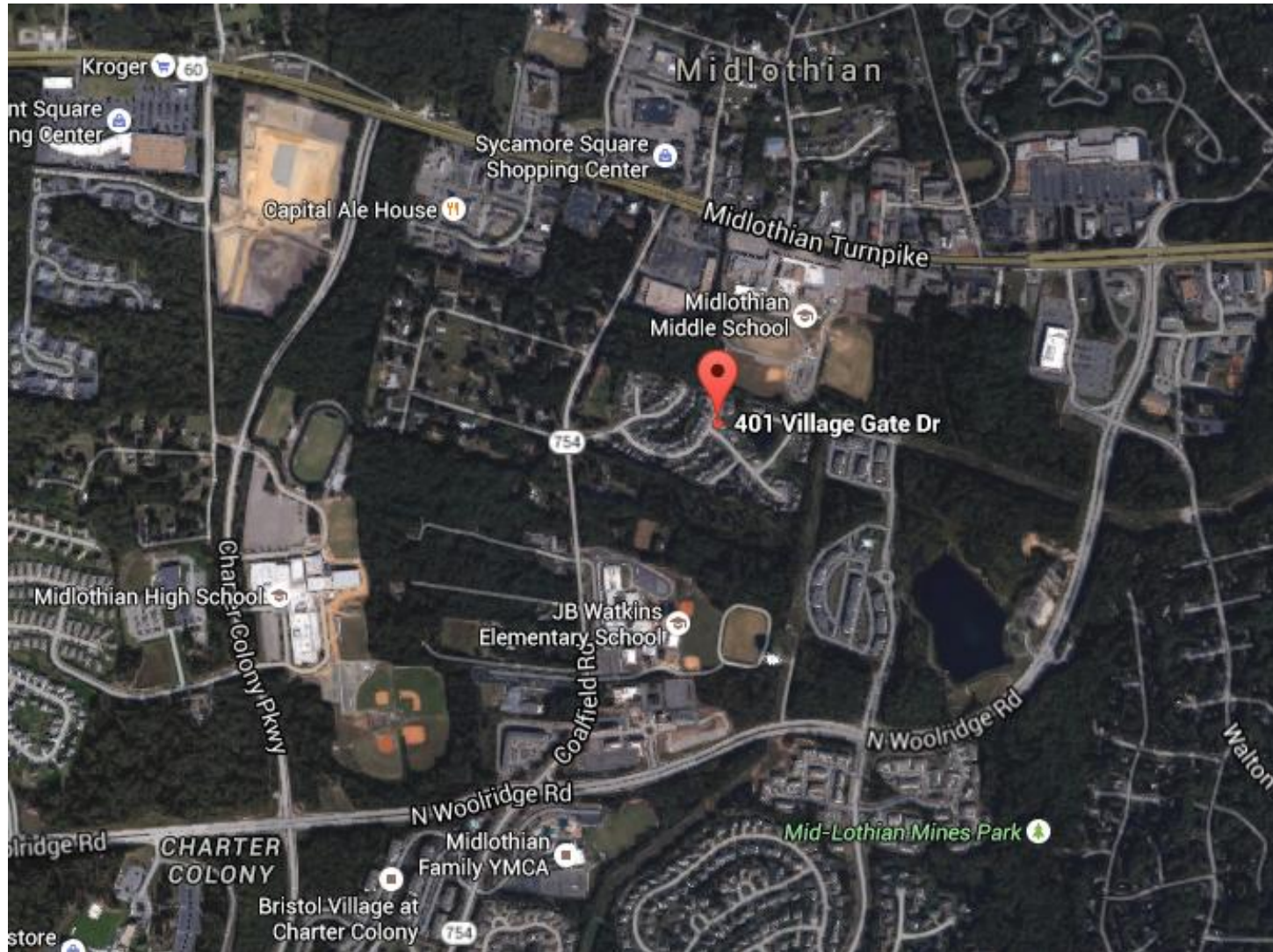
*Distance to
transit*



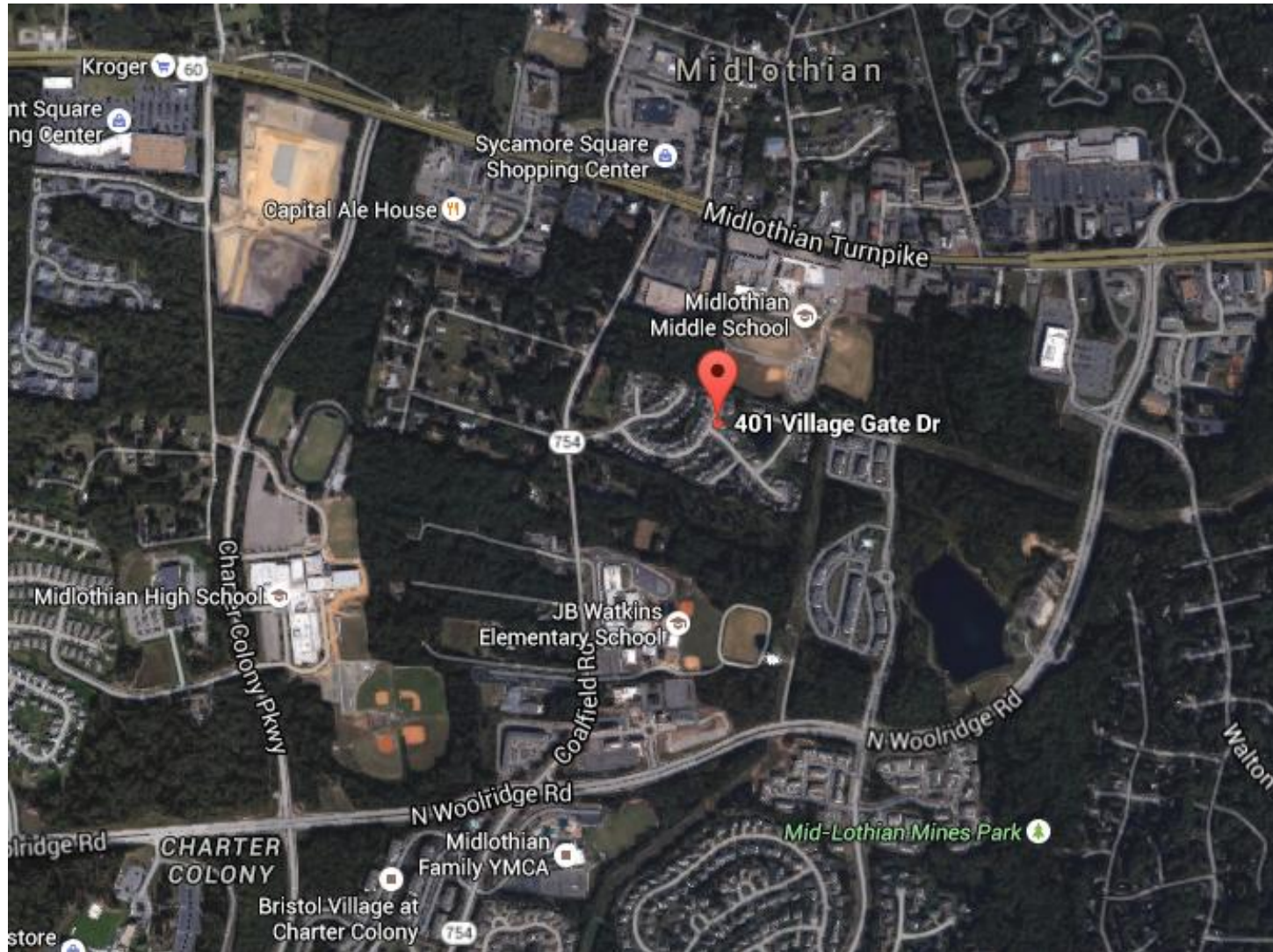
*Residential and
employment
density*

* Variable was weighted twice

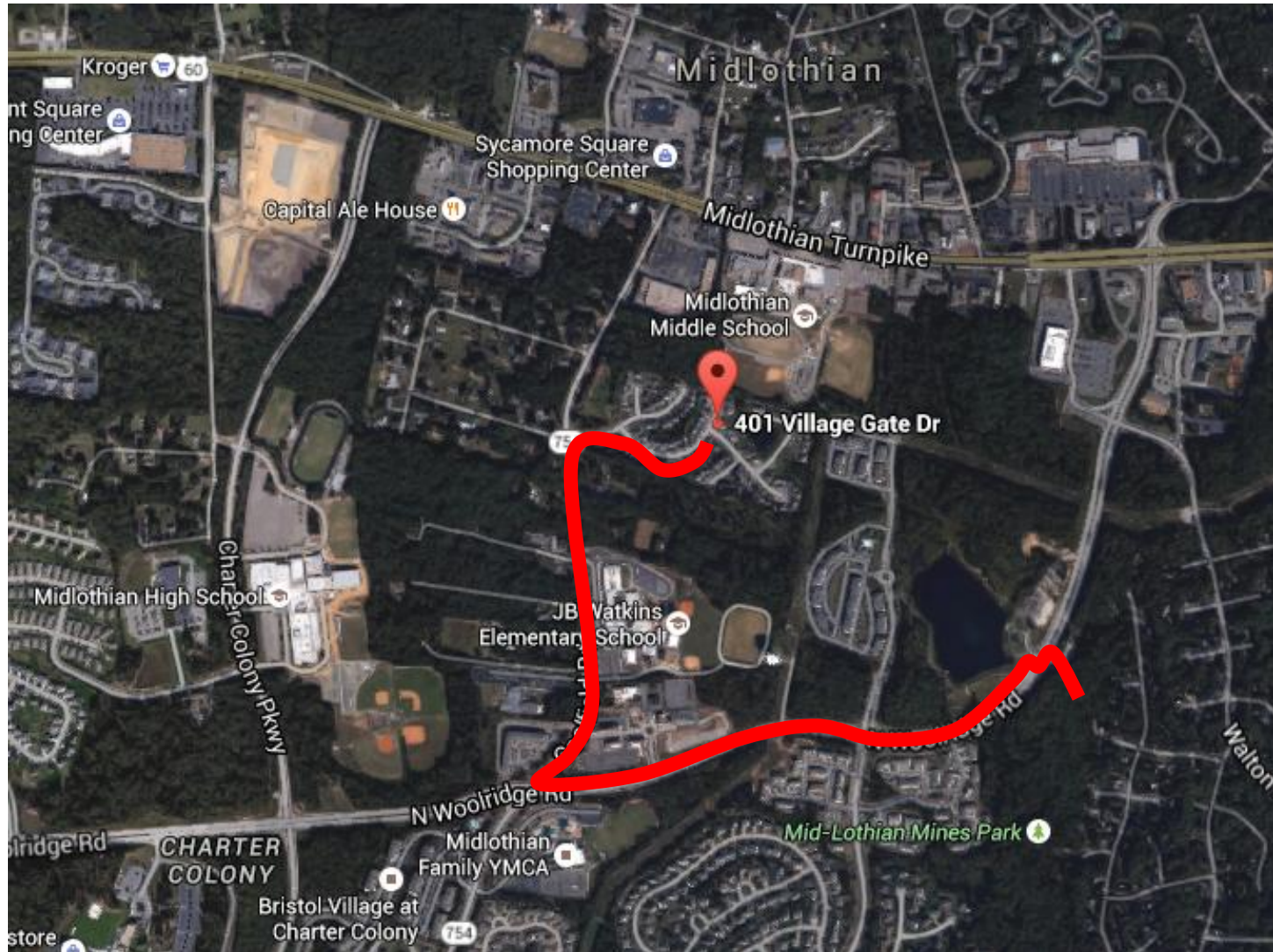
The 4 Ds: Density



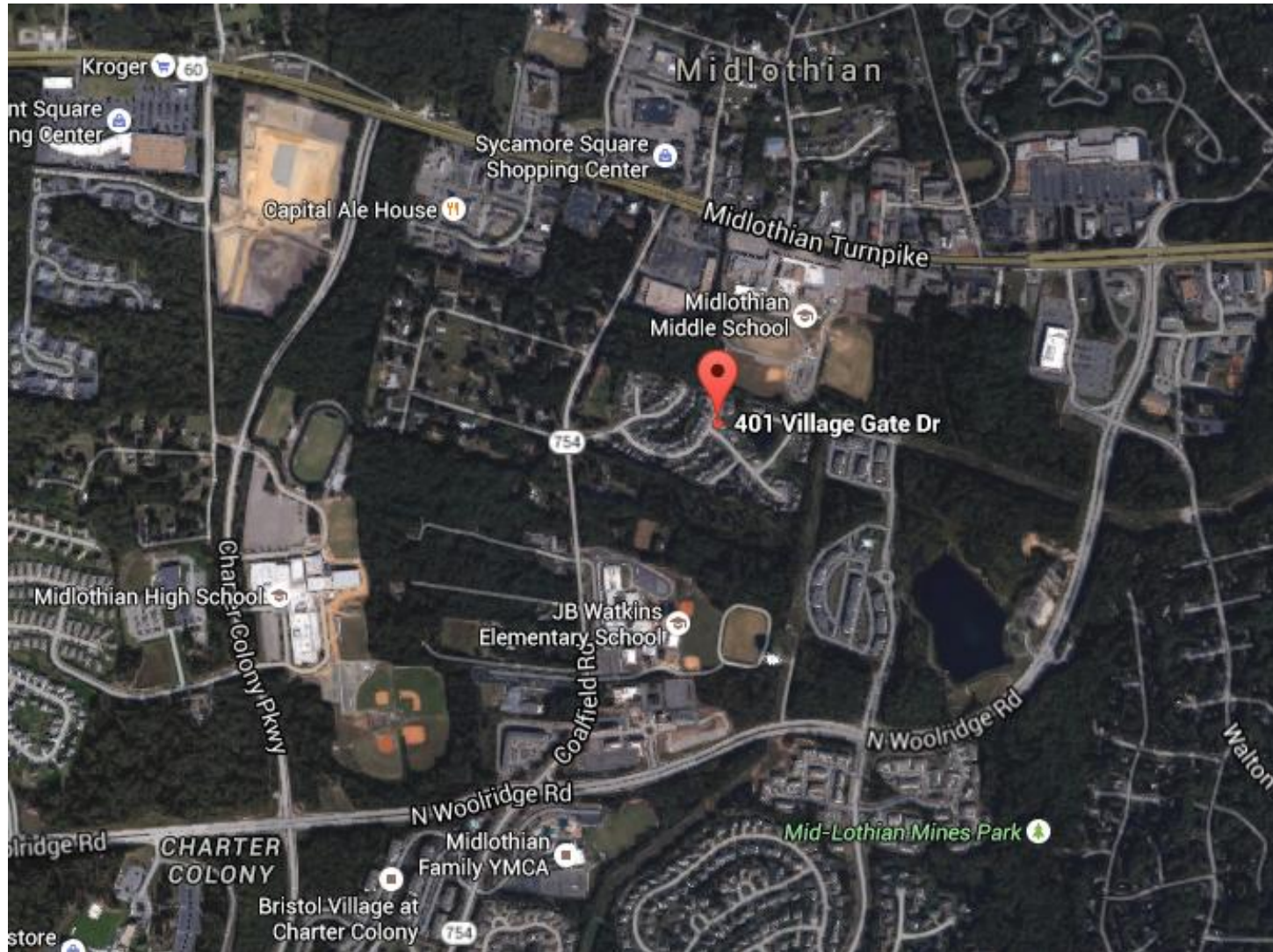
The 4 Ds: Diversity

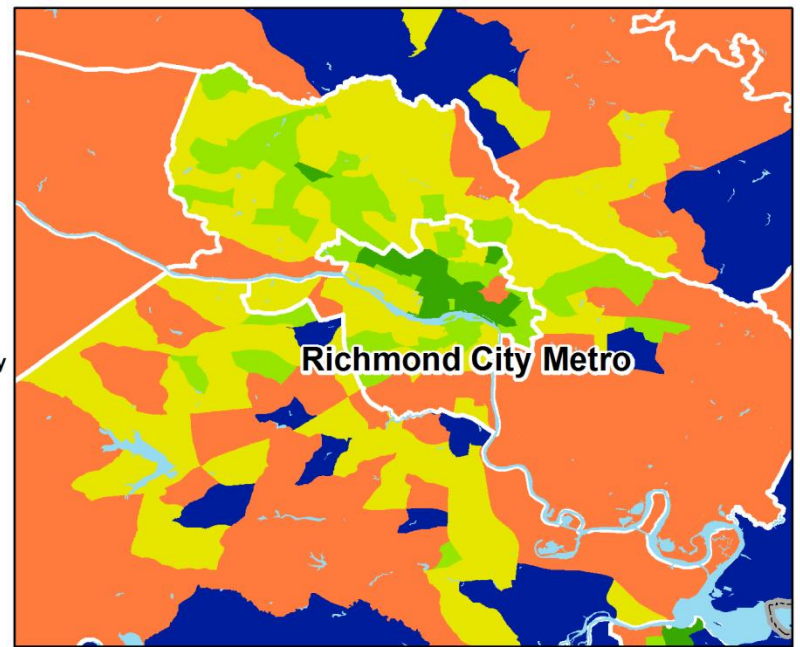
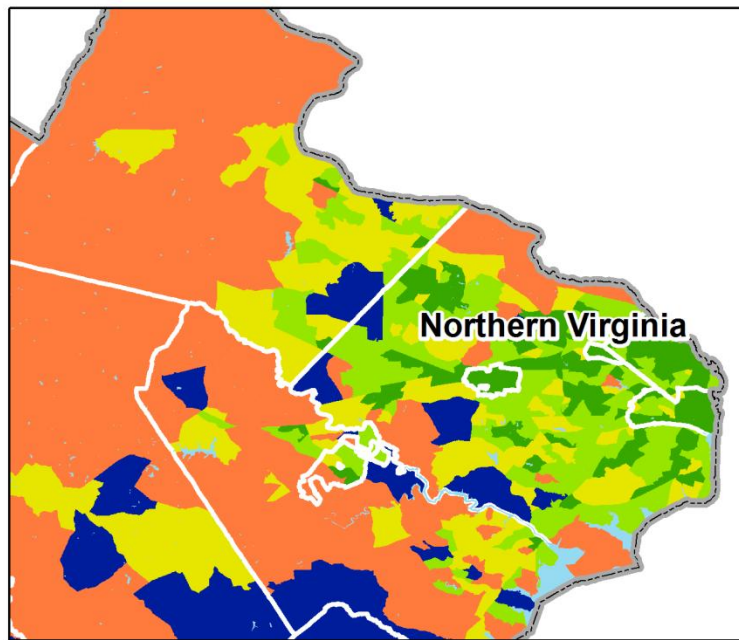


The 4 Ds: Design



The 4 Ds: Distance: 3.9m

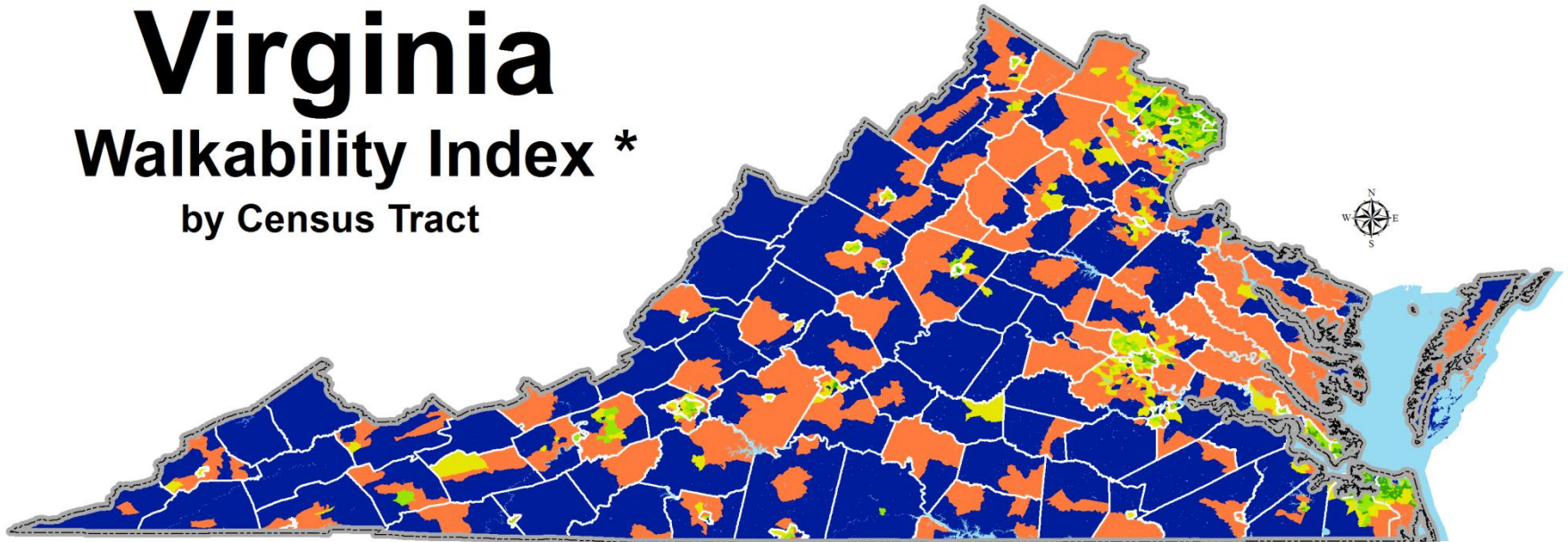




Virginia

Walkability Index *

by Census Tract



* Constructed by Office of Minority Health & Health Equity, Virginia
Data Sources: EPA Smart Location Database, 2014

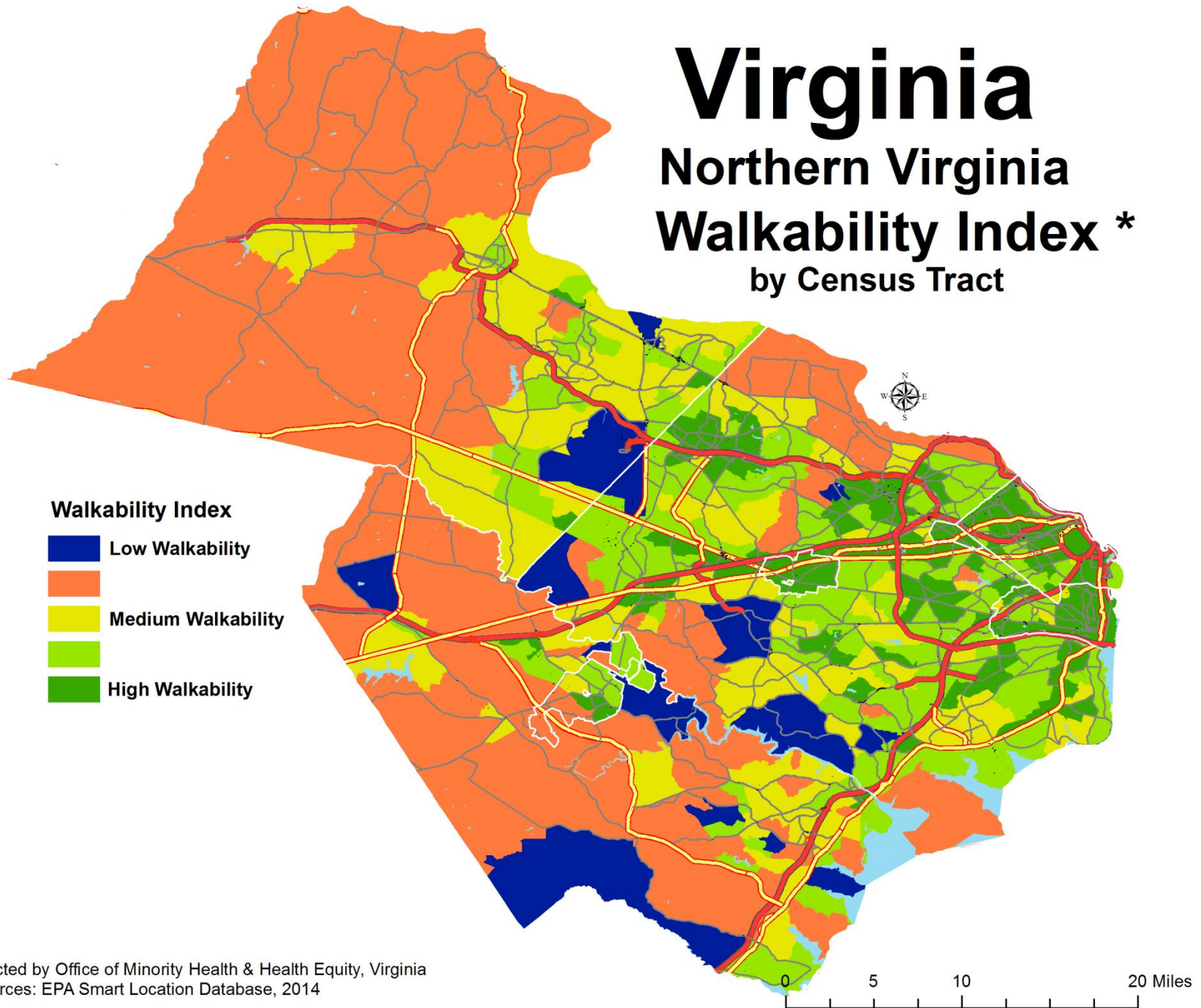


Virginia

Northern Virginia

Walkability Index *

by Census Tract

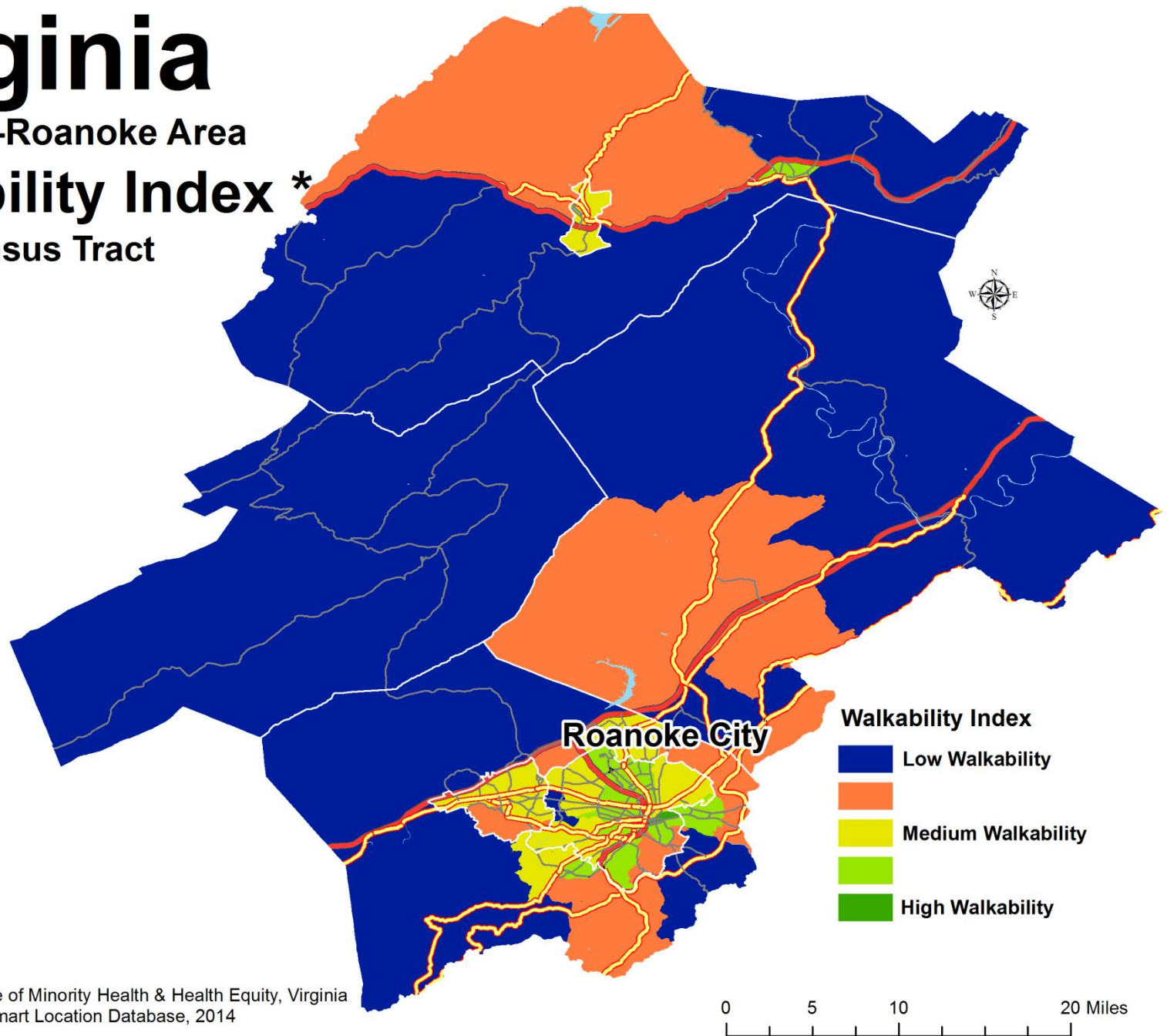


Virginia

Allegheny-Roanoke Area

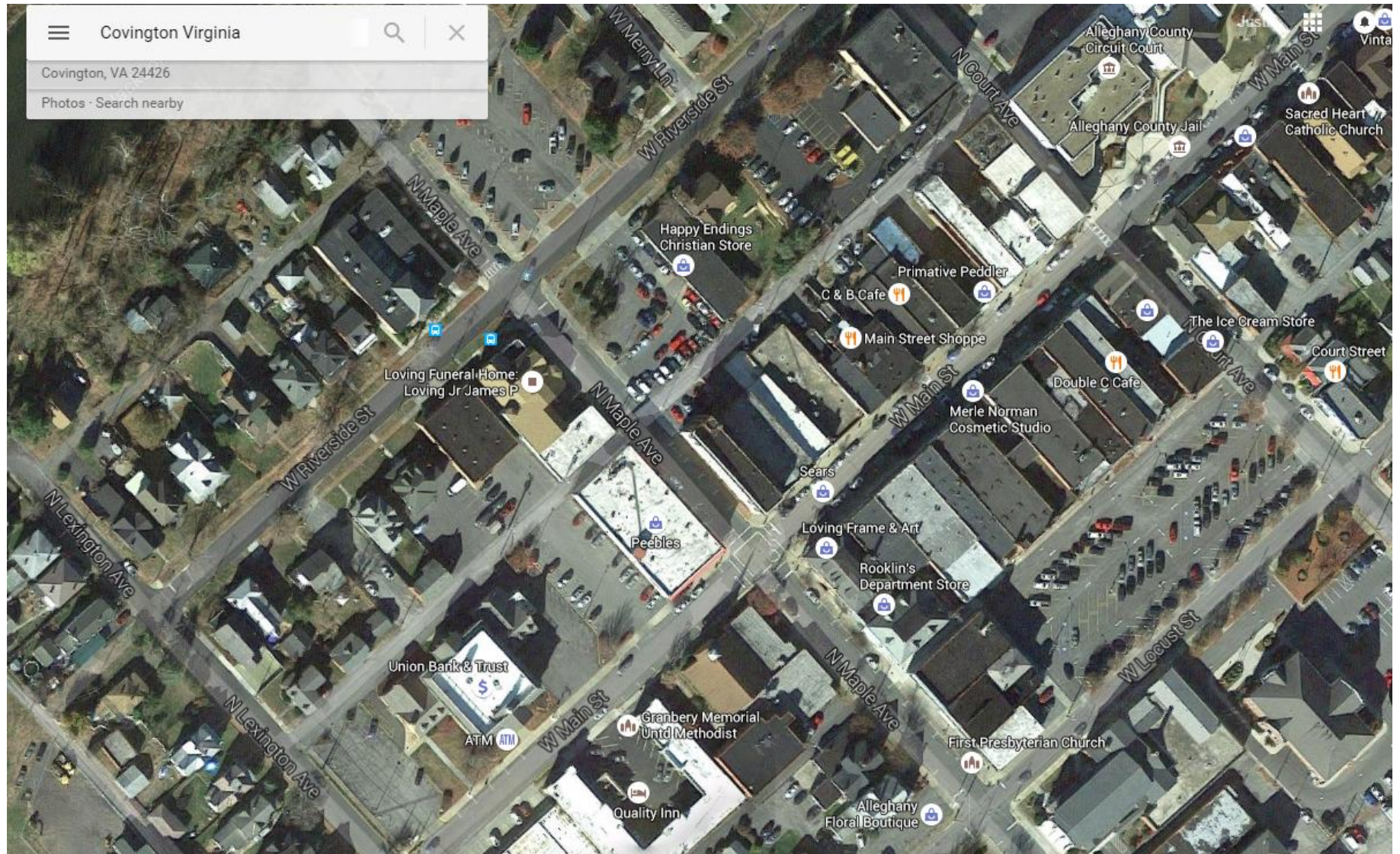
Walkability Index *

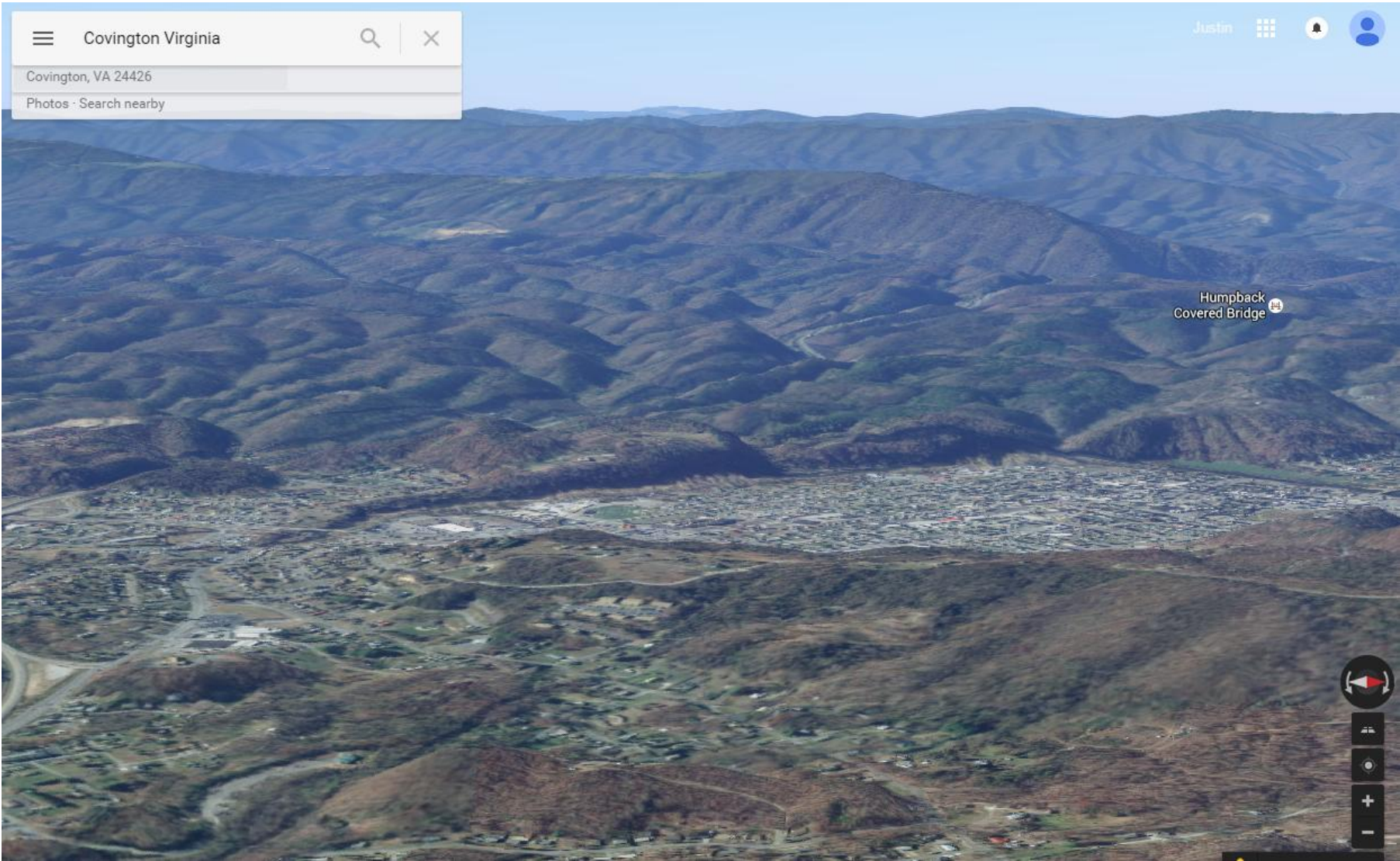
by Census Tract



* Constructed by Office of Minority Health & Health Equity, Virginia
Data Sources: EPA Smart Location Database, 2014

Covington Virginia



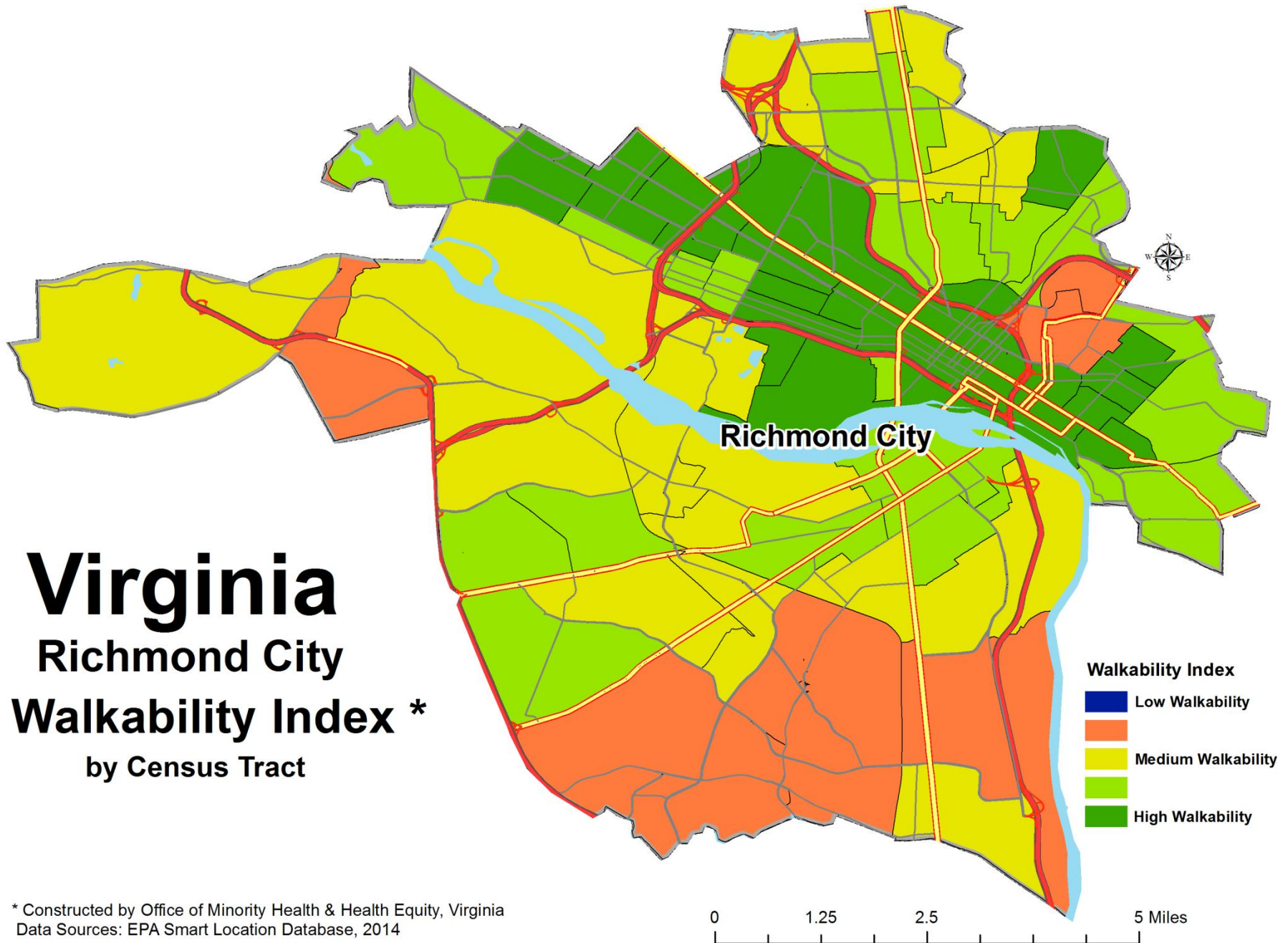


Virginia

Richmond City

Walkability Index *

by Census Tract



* Constructed by Office of Minority Health & Health Equity, Virginia
Data Sources: EPA Smart Location Database, 2014

First National Bank Building

- 1912
- 0.2 Acre Footprint
- 154 Units
- 770 Units per acre



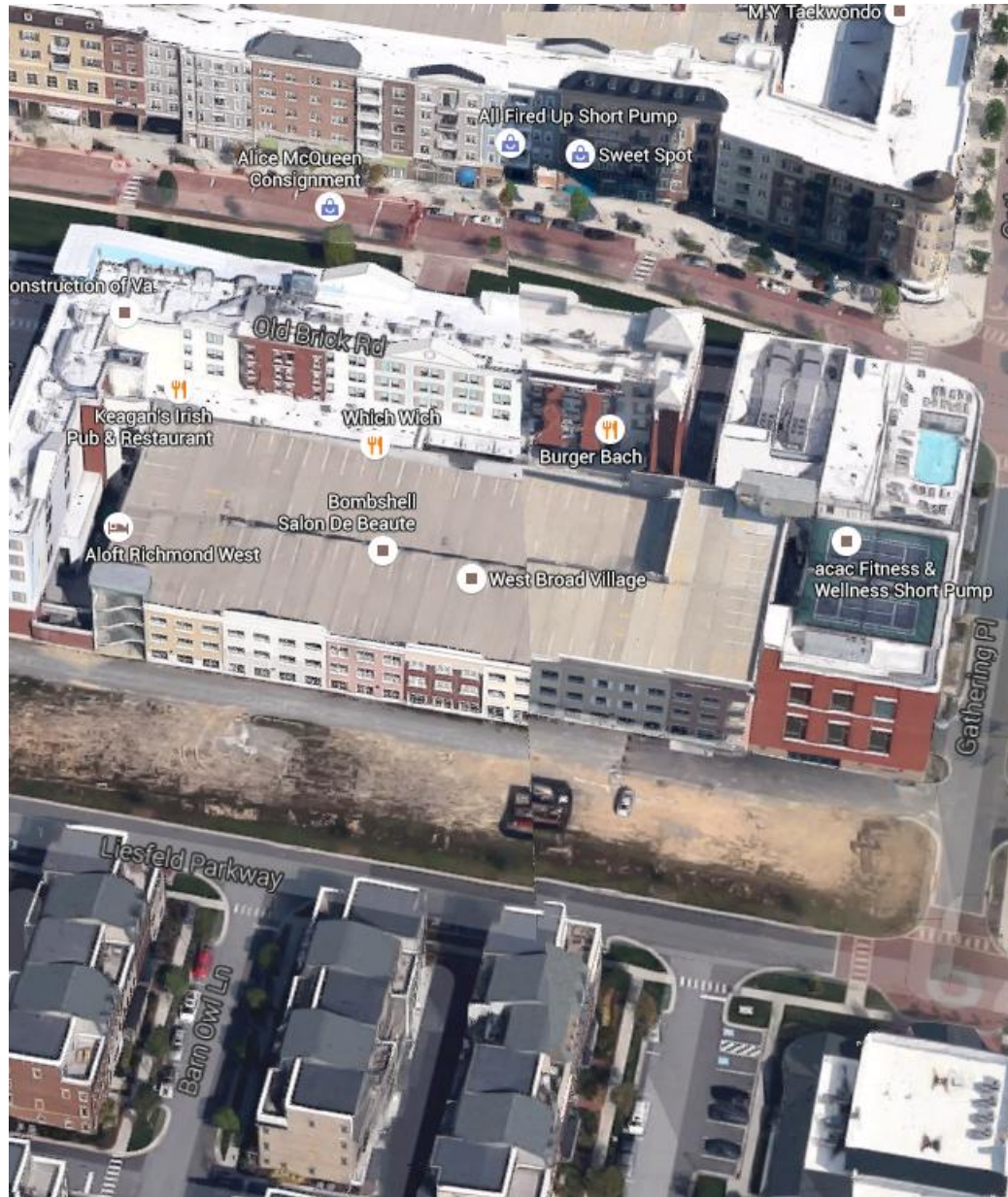
Density



My House: 0.18 Acres

Bellevue

- 1920s-1940s
- 360 Acre Footprint
- 2,842 Population
- 8 persons per acre
- ~ 4-5 units per acre



West Broad Village

- First Residents in 2009
- 115 Acre Footprint
- 882 Units
 - 337 Apartments
 - 545 Townhomes
- 8 Units per acre



West Broad Village Richmond



Showing all results for west broad village richmond

Justin



Explore



Thank you!!

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